

Weekly Report

01/07/2019 – 07/07/2019

Last week, I worked about the survey paper, and finally, it was submitted to JOV. Thank you for your generous support. I hope it will be accepted.

Move to last weekly report; I mentioned the idea I proposed to Junhua about video editing analogy. I try to find the design space of that idea and match to the analogy of how to tell a story. I have talked with Zhang Wei and Junhua together about that problem. Zhang Wei gave me an idea about storyboard, Junhua gave me an idea about data comics [1][2]. So I think the idea may work to let the user create their own story based on our provided story pieces.

I think about every time series data, and we can plot and separate the data features as a period of time. At this point, let us separate the animation data visualization to be pieces based on its timeline. Moreover, arrange as the story pieces in the same direction of story order.

Then let the user arrange the story pieces based on their own story (narrative order). At this point, the user can select the events that we provided to represent by mapping with the period of time. For example, we offered the Chinese history timeline; the user can choose year and date of the events we provided to represent in the story pieces that user select to arrange as their narrative order.

This idea, we can play with various time series data and added more various events data that need to mapping with the visualization. For example, we have a death rate of 200 years. Moreover, if we have the emerging disease event, the user can tell the story of emerging of each or all disease compare with the death rate.

The speed can auto adjust by the narrative story that created by provided story pieces. The annotation can select with the provided events. The user interface that I think, I think the left bar will be the extracted moving story pieces that arrange from its story order, user can organize their narrative order here (like moving slides in ppt). The below bar will be the bar like video editor tools. That can adjust the speed and others here. The right bar presents the selecting provided events. The main canvas shows rendering the resulting video from the bars.

[1] Campbell, B., Samsel, F., Bach, B., Riche, N. H., Carpendale, S., & Pp, H. (2017). Art on Graphics The Emerging Genre of Data Comics, (June). <https://doi.org/10.1109/ICEPT.2013.6756569>

[2] Bach, B., Kerracher, N., Hall, K. W., Carpendale, S., Kennedy, J., & Henry Riche, N. (2016). Telling Stories about Dynamic Networks with Graph Comics, 3670–3682. <https://doi.org/10.1145/2858036.2858387>